SEGMENT

The Team

Andre

Michal

Amir

Martin

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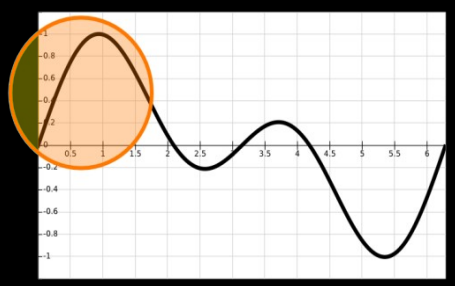
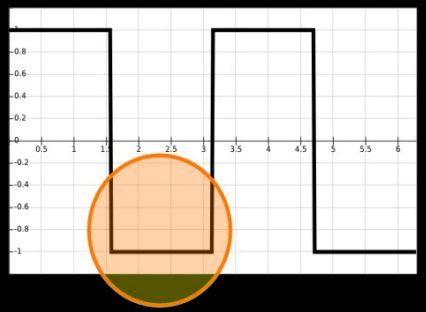
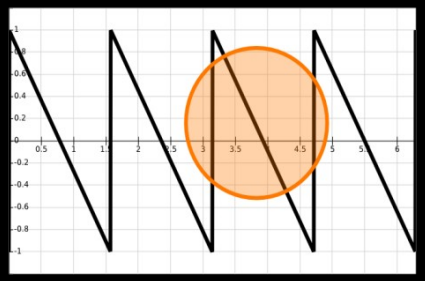
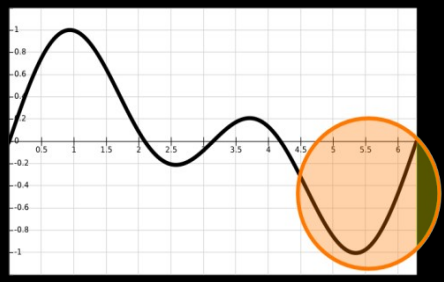
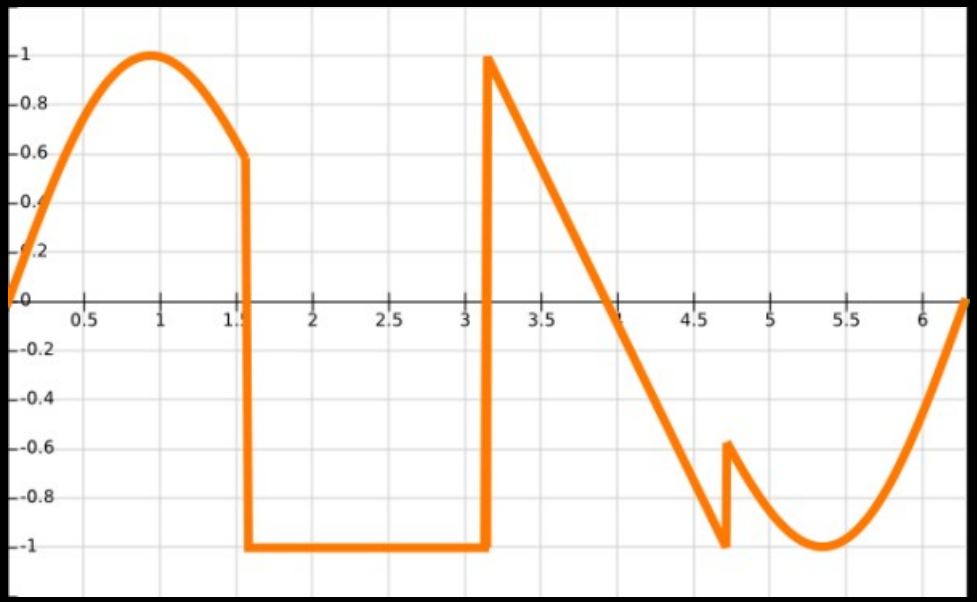
Segment Synthesis











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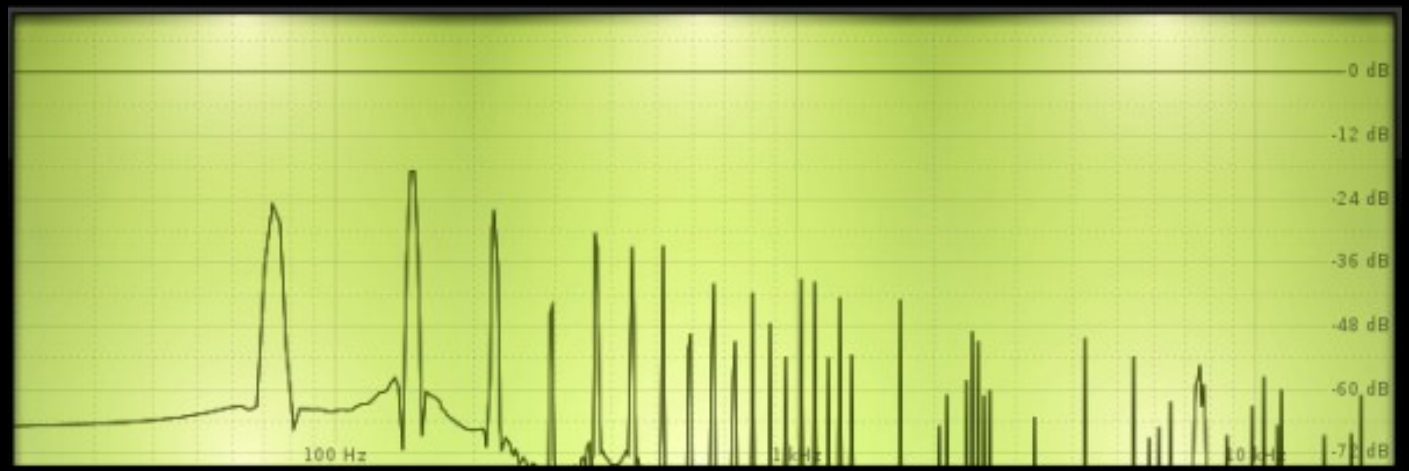
Segment Synthesis

Additive



Segment

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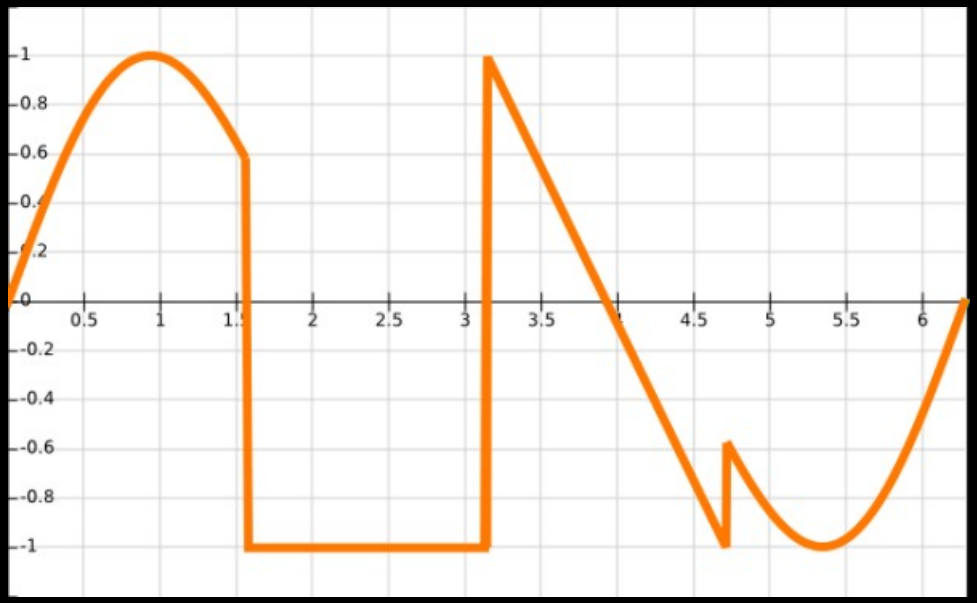
Segment Synthesis



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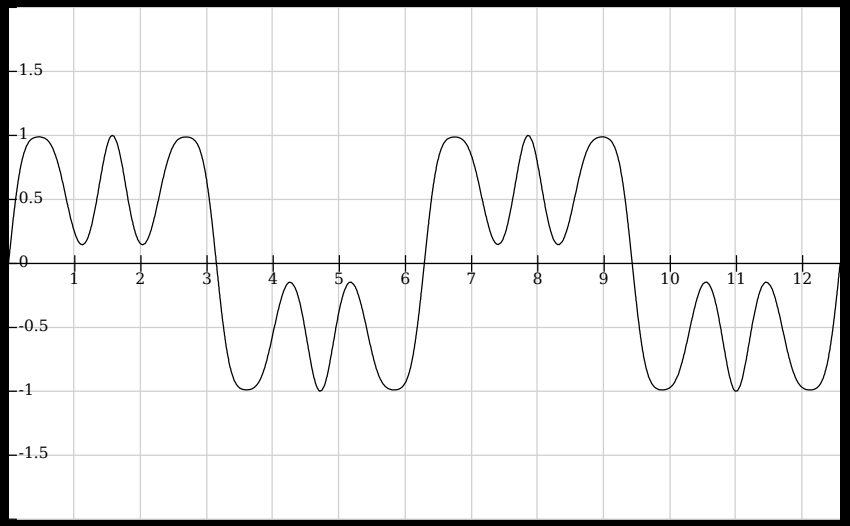
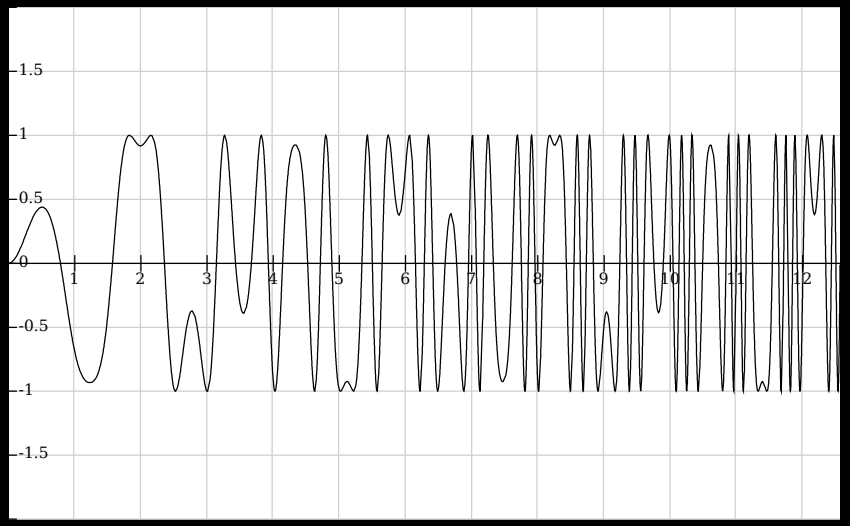
Frequency Modulation

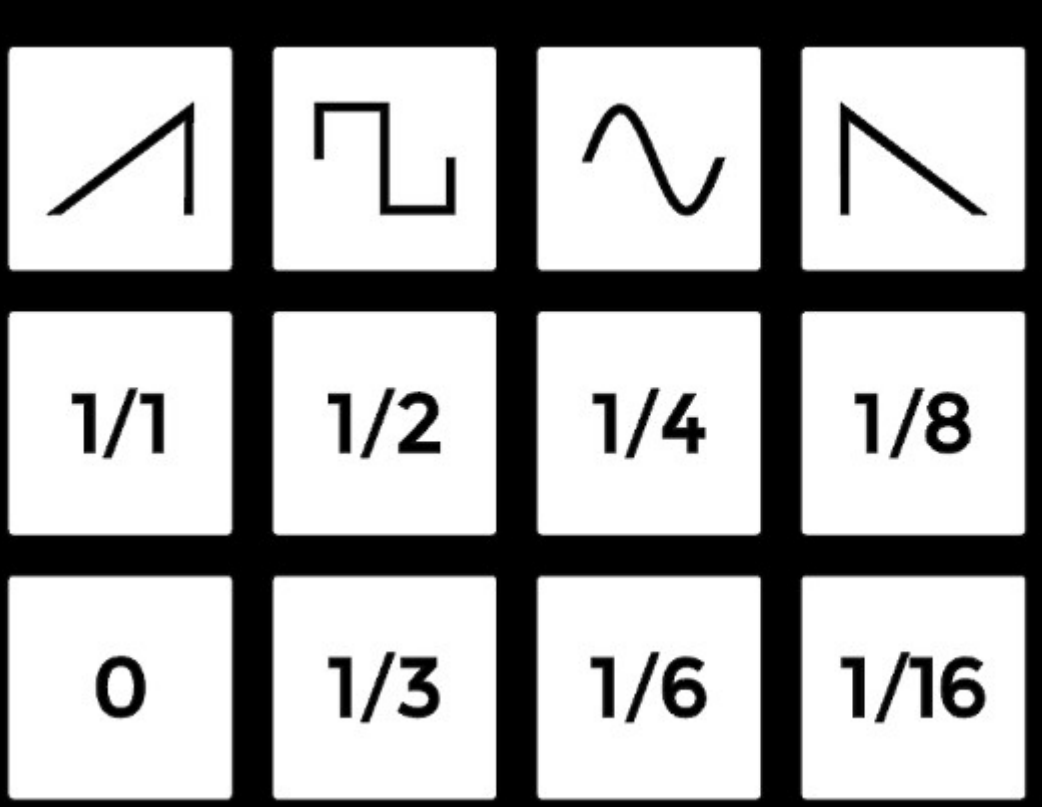


sin(x+sin(4x))

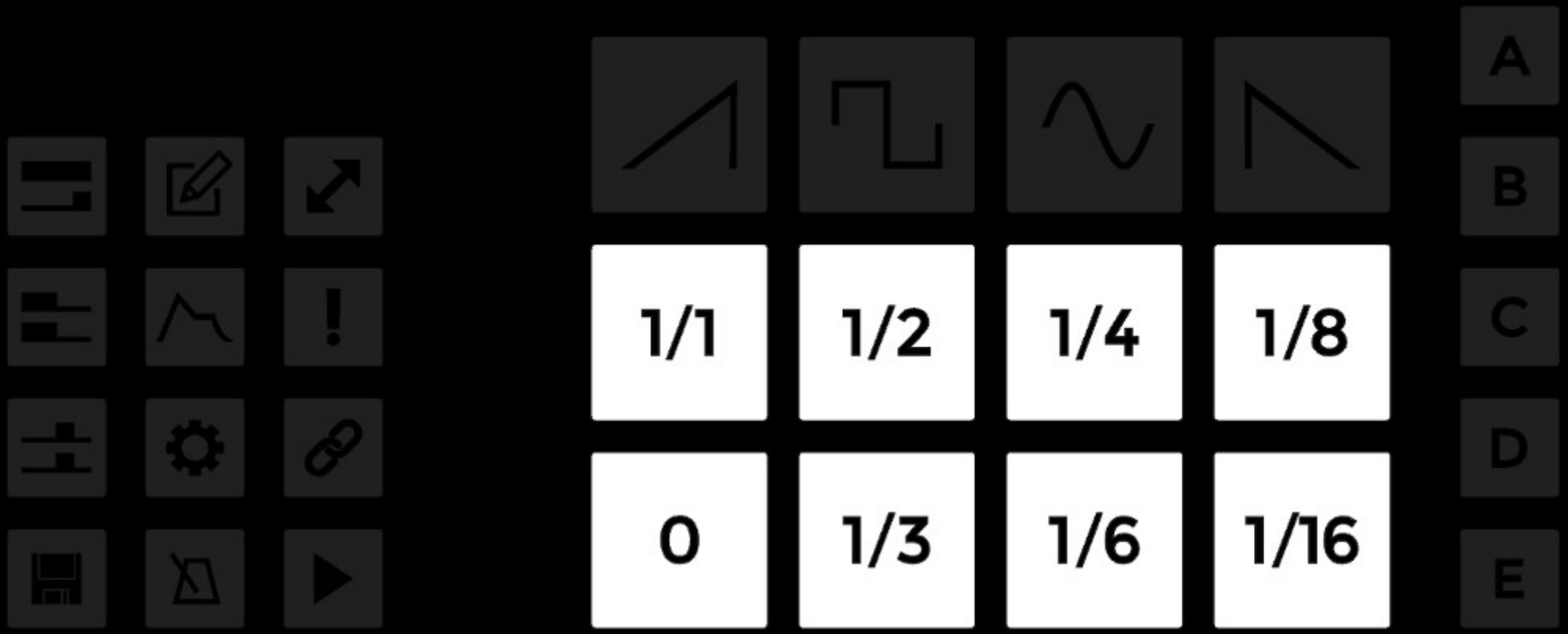


sin(x*sin(4x))

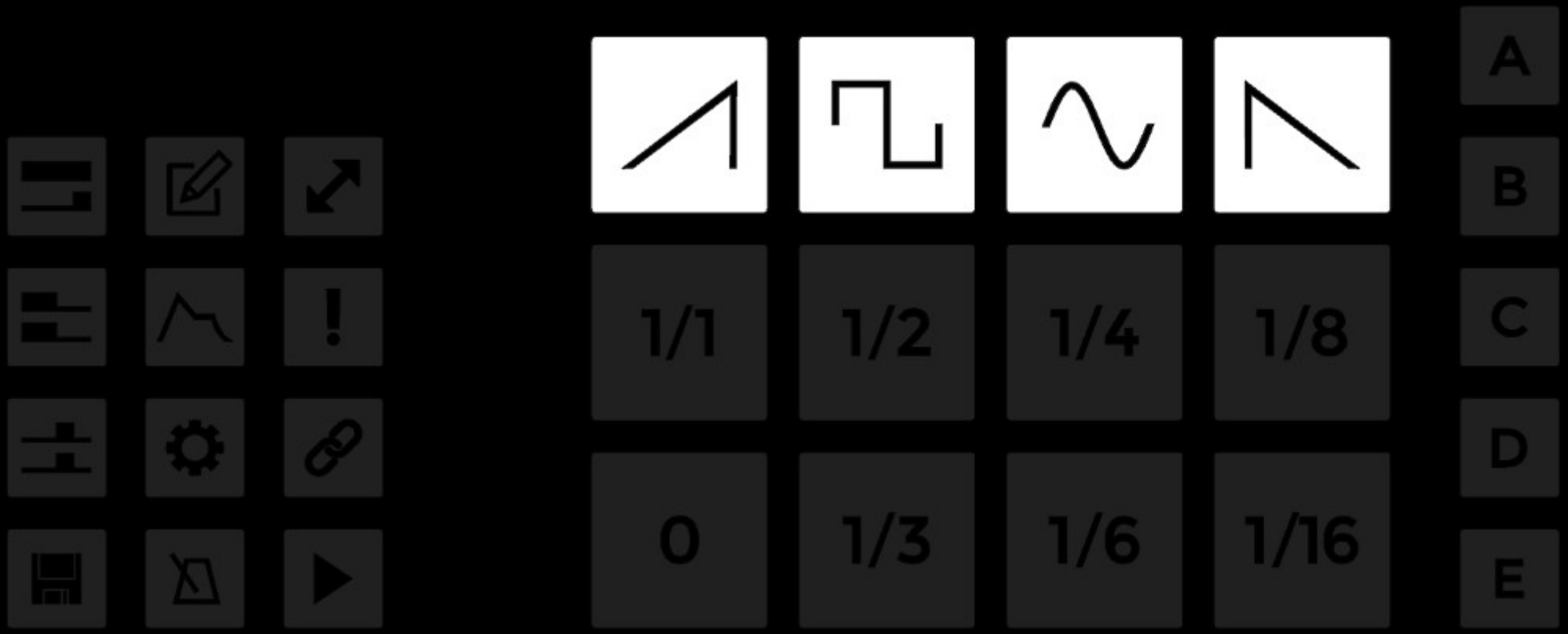
Controls



LFO Speed



LFO Waveform



Sounds

A
B
C
D
E

Encoders and Displays

Segments

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Others

Presets

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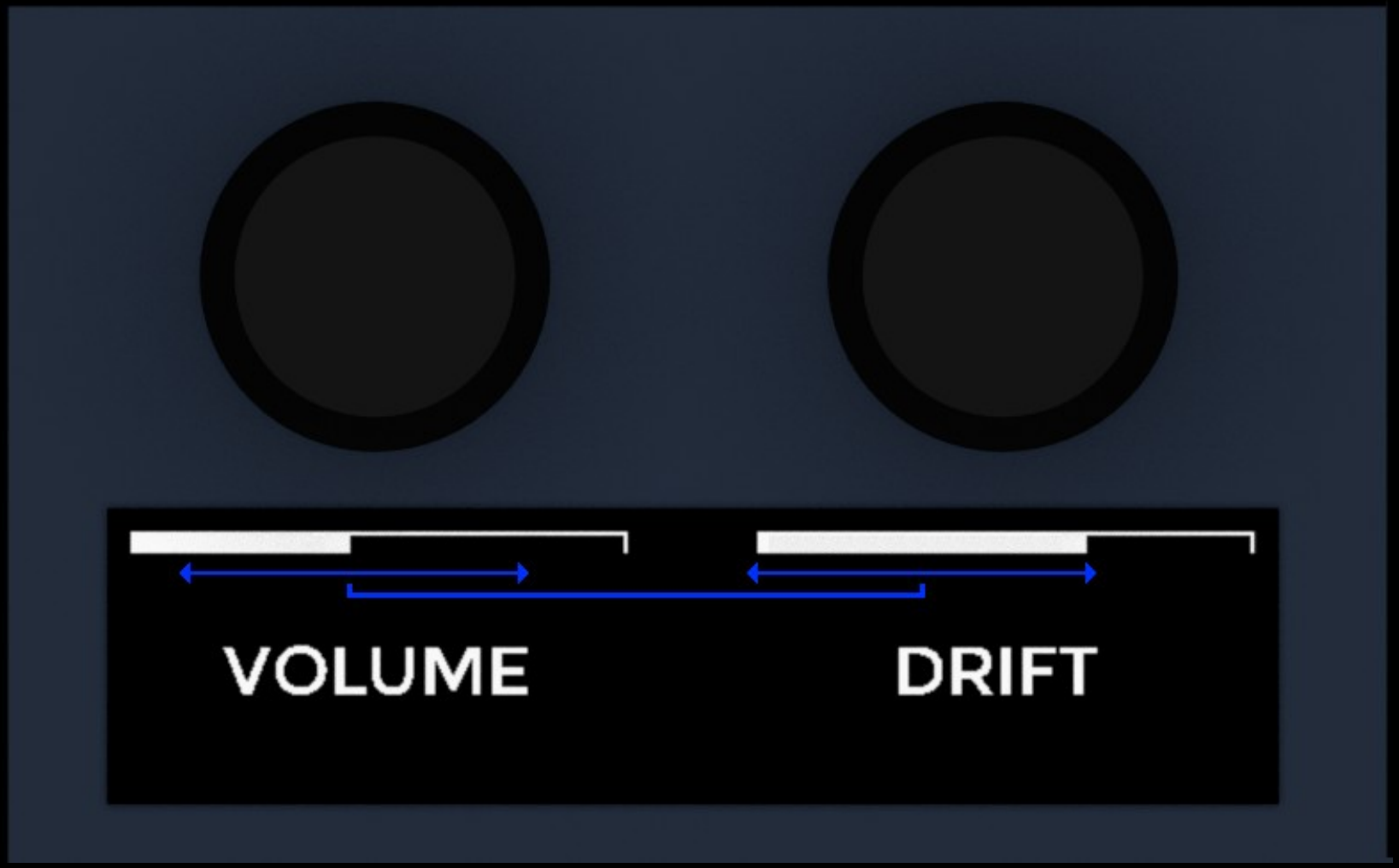
Presets

Drift

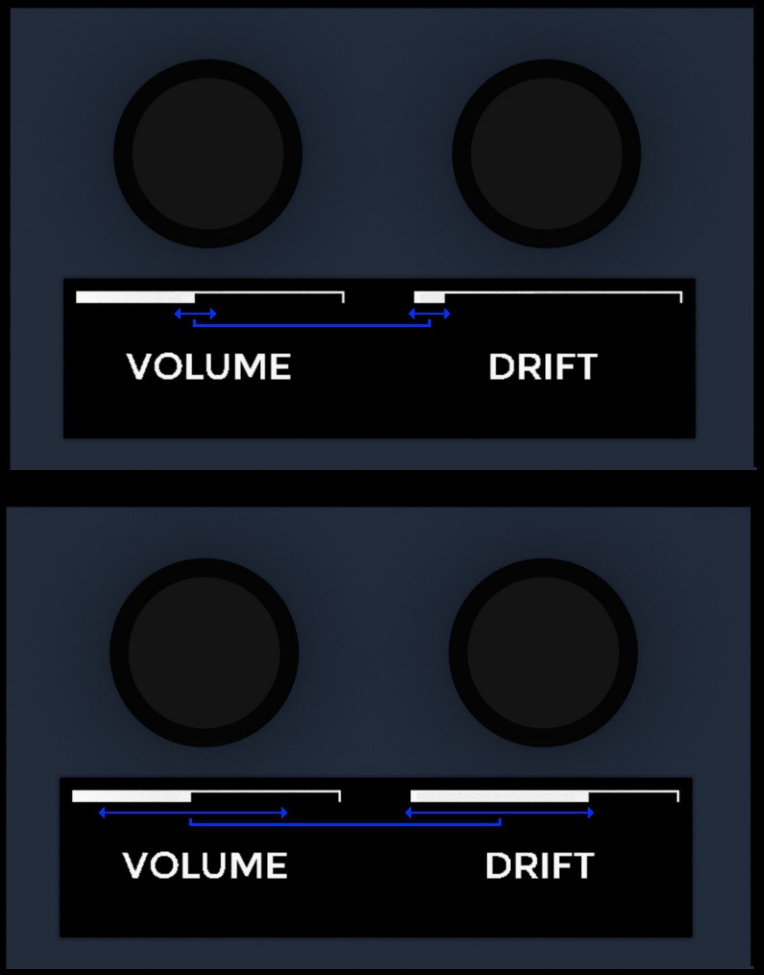
Drift

Drift

Drift



Drift Parameter



- Amount
- Polling Speed
- Drift Speed

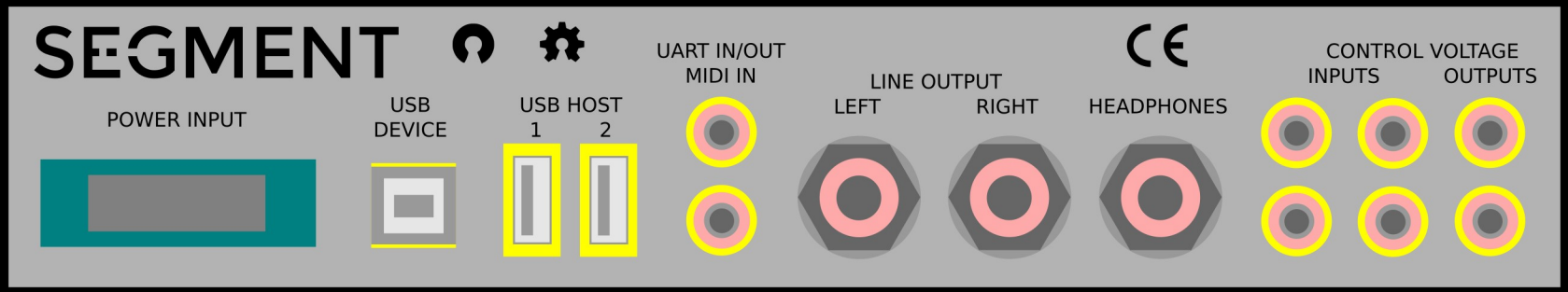
Hardware

- ARM Cortex M4 for audio
- ARM Cortex M4 encoders and displays
- ARM Cortex M0 for buttons and RGB LEDs
- 24bit 48kHz DAC

Software

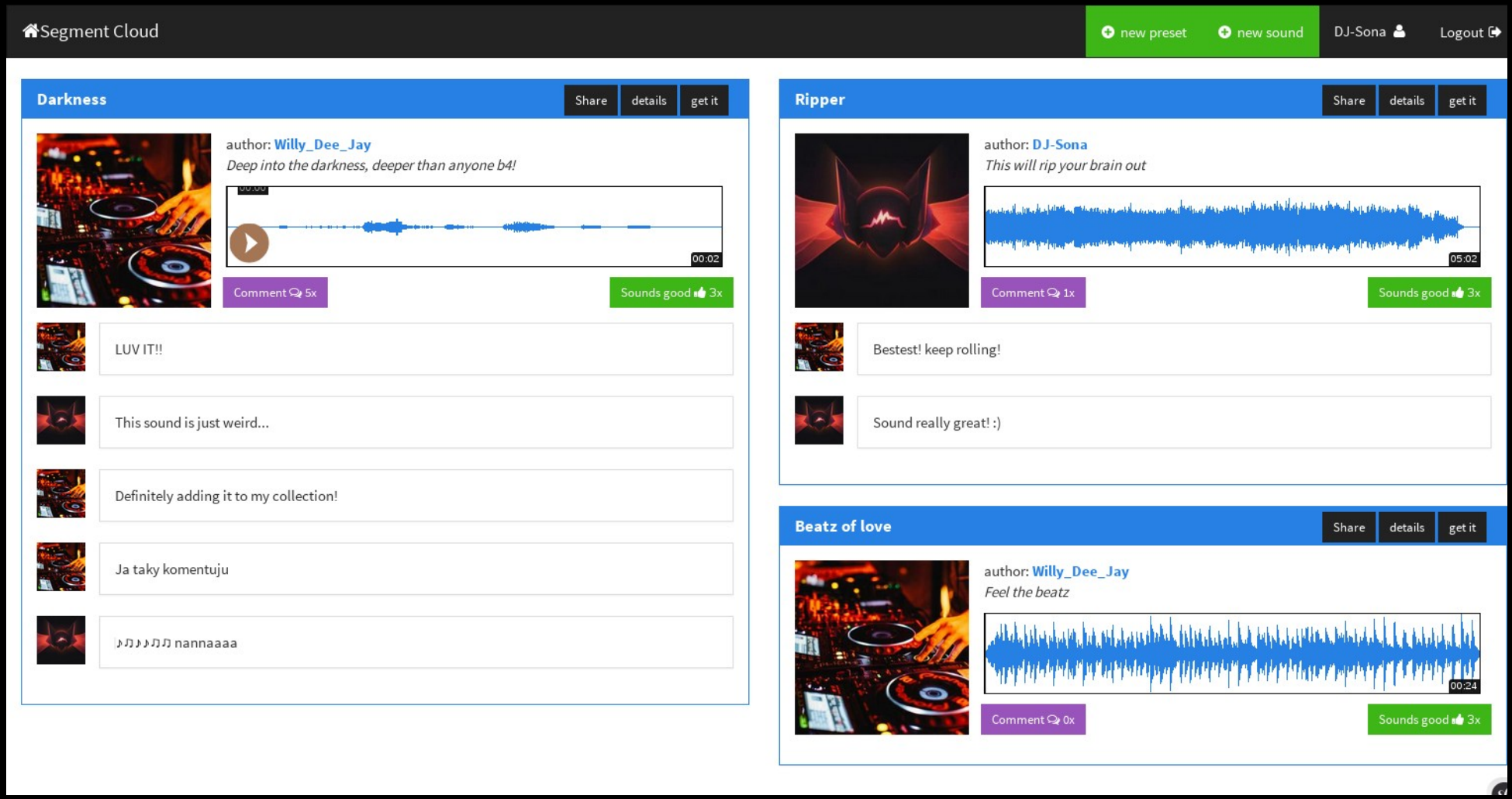
- Bare-metal
- libopencm3 (LGPL v3)
- 32bit float processing
- 10bit internal controls resolution
- OSC
- Zero buffer

Connectivity



- USB Device
- 2x USB Host
- 2x Balanced Line Output, Headphones Output
- 4x Control Voltage Input
- 2x Control Voltage Output
- UART I/O on Minijack
- MIDI Input on Minijack

Segment Cloud



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As in speech

- Open Source (GPLv3)
- Open Hardware (TAPR)

- All sources and hardware documentation will be released upon funding
- Indiegogo campaign starts May 2015

SEGMENT

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